

## CLAIMS

What is claimed is:

1. A method of performing computer implemented recognition comprising:

- 5        a) accessing user input to be recognized;
- b) on a mobile device, performing a coarse recognition process on said user input to generate a coarse result;
- c) displaying a portion of said coarse result on a display screen of said mobile device;
- 10      d) performing a detailed recognition process on said user input to generate a detailed result;
- e) performing a comparison of said detailed result and said coarse result; and
- f) displaying a portion of said comparison on said display screen.

15      2. A method as described in Claim 1, wherein said detailed recognition

process is performed on another computing system separate from said mobile device.

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- 3 . A method as described in Claim 2 further comprising:  
transferring said user input from said mobile device to said another  
computing system; and  
transferring said detailed result from said another computing system to said  
5 mobile device.
- 4 . A method as described in Claim 3 further comprising:  
transferring said coarse result to said another computing system in  
conjunction with said user input.
- 5 . A method as described in Claim 3, wherein said transferring is performed  
wirelessly over a wireless communications channel.
- 6 . A method as described in Claim 1, wherein said detailed recognition  
process is performed on said mobile device.  
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- 7 . A method as described in Claim 1, wherein said detailed recognition  
process is performed during background processing of said mobile device.
- 20 8 . A method as described in Claim 1, wherein said user input is speech data  
and wherein said coarse and said detailed recognition processes are speech  
recognition processes.

9. A method as described in Claim 1, wherein said user input is handwriting data and wherein said coarse and said detailed recognition processes are handwriting recognition processes.

5        10. A method as described in Claim 1, wherein said user input is image data and wherein said coarse and said detailed recognition processes are image recognition processes.

10        11. A method as described in Claim 1, wherein said coarse recognition process is constrained by time and computing resources.

15        12. A recognition system comprising:  
            a mobile device accessing user input and performing a coarse recognition process thereon; and  
            a data link between said mobile device and another computing system;  
            wherein said another computing system is for receiving said user input from said mobile device and for performing a detailed recognition process thereon to return a detailed result to said mobile device.

20        13. The system as recited in Claim 12, wherein said coarse recognition process is constrained with regard to allowable response time.

14. The system as recited in Claim 12, wherein a result of said coarse recognition process is displayed upon a display screen of said mobile device.

15. The system as recited in Claim 12, wherein said data link is wireless.

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16. The system as recited in Claim 12, wherein said data link is wired.

17. The system as recited in Claim 12, wherein said another computing

system is not constrained by response time.

18. The system as recited in Claim 12, wherein said another computing

system also receives a portion of the result of said coarse recognition process.

19. The system as recited in Claim 12, wherein a comparison of said detailed

result and result of said coarse recognition process is performed and a portion of said comparison is displayed on a display device of said mobile device.

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20. A recognition system comprising:

a mobile device accessing user input and performing a coarse recognition process thereon; and

a background recognition process performed on said mobile device, wherein

5 said background recognition process performs a detailed recognition process on said user input, said background recognition process returning a detailed result to a foreground application of said mobile device.

10 21. The system as recited in Claim 20, wherein said coarse recognition

process is constrained with regard to allowable response time.

15 22. The system as recited in Claim 20, wherein the result of said coarse

recognition process is displayed upon a display device of said mobile device.

20 23. The system as recited in Claim 20, wherein said background recognition

process on said mobile device is not constrained by response time and operates in background processes.

24. The system as recited in Claim 20, wherein a comparison of said detailed

20 result and result of said coarse recognition process is performed and a portion of said comparison is displayed on a display device of said mobile device.

25. A recognition system comprising:
- a mobile device accessing user input and performing a coarse recognition process on said user input to generate a first result;
  - a background recognition process on said mobile device that performs a second recognition process on said user input, said background recognition process returning a detailed result to a foreground application of said mobile device; and
  - 5 a data link between said mobile device and a second computing system;
  - wherein said second computing system receives a user input from said mobile device, said second computing system performing a third recognition process to return a second detailed result to said mobile device.
26. The system as recited in Claim 25, wherein said coarse recognition process is constrained with regard to allowable response time.
- 15 27. The system as recited in Claim 25, wherein said first result of said coarse recognition process is displayed upon a display of said mobile device.

28. The system as recited in Claim 25, wherein said background recognition process on said mobile device is not constrained by latency and response time.

29. The system as recited in Claim 25, wherein a comparison of said detailed result of said background recognition and said first result of said coarse recognition process is performed and a portion of said comparison is displayed on a display device of said mobile device.

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30. The system as recited in Claim 25, wherein said user input is speech data and wherein said coarse and said detailed recognition processes are speech recognition processes.

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31. The system as recited in Claim 25, wherein said user input is handwriting data and wherein said coarse and said detailed recognition processes are handwriting recognition processes.

32. The system as recited in Claim 25, wherein said user input is image data and wherein said coarse and said detailed recognition processes are image recognition processes.

33. The system as recited in Claim 25, wherein said second computing system is not constrained by latency and response time.

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34. The system as recited in Claim 25, wherein a comparison of said second detailed result, said result of said coarse recognition process, and said detailed result of said background recognition process is performed and a portion of said comparison is displayed on a display device of said mobile device.

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